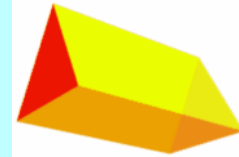


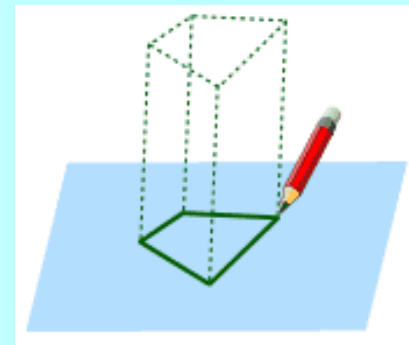


## Cross Section WARM-UP



**\*\*LEAVE YOUR HW ON YOUR DESK.\*\***

- 1. What three-dimensional shape(s) has a cross section that is a pentagon when sliced parallel to the base? Can you draw it??**
- 2. What three-dimensional shape has a circular cross section when sliced parallel to the base and a rectangular cross section when sliced perpendicular to the base? Draw it.**
- 3. Can you name this shape? What would the shape of the cross section be if sliced parallel to the base? Try to draw it on your paper.**













## Let's review what we did yesterday!



### Modeling 3-D Shapes

Take the play dough and form it into the first shape. Use the wire to slice through your 3-D shape. Record the result of two-dimensional shape of the cross-section of the cut, and the type of cut you made (parallel, perpendicular, or diagonal to the base). Repeat this procedure with each of the different 3-dimensional shapes.

Shape	Parallel to the Base	Perpendicular to the Base	Diagonally (there may be more than one shape you can make!)
Rectangular Prism 			
Triangular Prism 			
Rectangular Pyramid 			
Triangular Pyramid 			
Cylinder 			
Cube 			
Cone 			
Sphere 			
Pentagonal Prism 			
Pentagonal Pyramid 			

*Answer on the back of this paper: "What are you noticing or discovering about the 2-dimensional shapes created by slicing 3-dimensional figures? Explain your findings."*

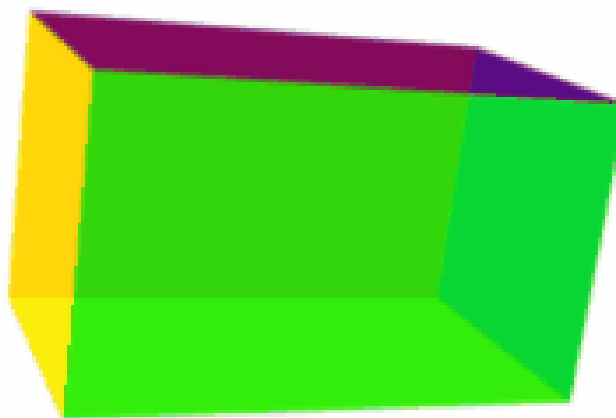
**1. What shapes would have a rectangular cross-section?  
Draw two of them and label correctly.**

**SHAPE 1**

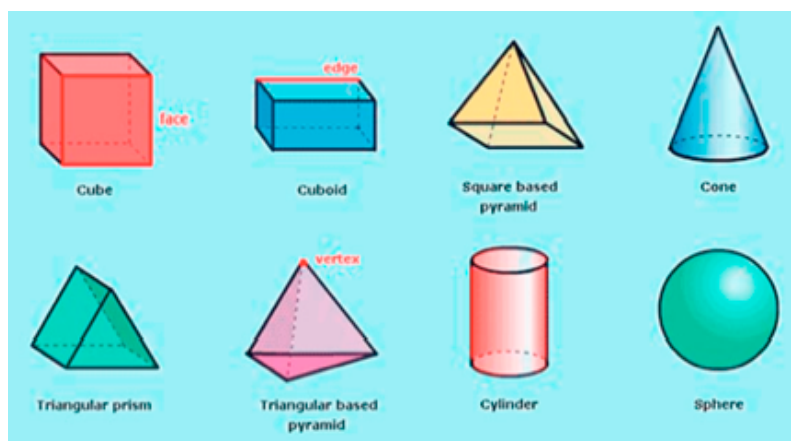
**SHAPE 2**

**Name of Shape:\_\_\_\_\_ Name of Shape: \_\_\_\_\_**

**2. As he looked at the rectangular prism below, James said that the cross-section will be exactly the same if the prism is sliced parallel to the base or perpendicular to the base. Is he correct? Justify your response.**



**3. What are the shapes of the cross-sections of the following figures?**



**Cube:** \_\_\_\_\_

**Rectangular Prism (Cuboid):** \_\_\_\_\_

**Square Pyramid:** \_\_\_\_\_

**Cone:** \_\_\_\_\_

**Triangular Prism:** \_\_\_\_\_

**Triangular Pyramid:** \_\_\_\_\_

**Cylinder:** \_\_\_\_\_

**Sphere:** \_\_\_\_\_

